



NAS 1.53:OSS-03

National Aeronautics
and Space Administration

May 8, 1995
AO No. 95-OSS-03

Announcement of Opportunity

Mars Surveyor Program: '98 Lander and Orbiter Missions Science Instruments

OK

Notices of Intent Due: July 10, 1995

COMPLETED

Proposals due: August 8, 1995

**MARS SURVEYOR PROGRAM:
'98 LANDER AND ORBITER MISSIONS
SCIENCE INSTRUMENTS**

Announcement of Opportunity
Soliciting Proposals
for Basic Research in Space Science
for period ending
August 8, 1995

AO No. 95-OSS-3
Issued: May 8, 1995

Office of Space Science
National Aeronautics and Space Administration
Washington, DC 20546

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SUMMARY OF KEY INFORMATION

TYPE OF PROPOSAL REQUESTED BY THIS ANNOUNCEMENT OF OPPORTUNITY (AO)

The NASA Mars Surveyor Program (MSP) will launch two spacecraft to Mars in 1998: an orbiter and a lander. The MSP 1998 orbiter will carry one of the two remaining Mars Observer instruments (the Gamma Ray Spectrometer or the Pressure Modulator Infrared Radiometer) and a camera. The Mars Surveyor Program 1998 lander will soft-land on the surface, carrying an instrument suite which will perform in situ investigations to address the science theme "Volatiles and Climate History" on Mars. This AO requests principal investigator/instrument investigation proposals for the orbiter camera and/or the lander payload. In addition to an instrument suite or single instruments, the lander payload proposal must include any deployment or mobility devices necessary to achieve the lander science objectives. Because of the constraints of the Mars Surveyor Program, an integrated instrument suite is highly desirable. However, proposals for individual instruments will also be considered.

PLANNED SCHEDULE OF INVESTIGATION PROPOSAL AND SELECTION EVENTS

1995

July 10	Notices of Intent due
August 8	Proposals due
October	Selection of investigations; formation of Mars Surveyor Program: '98 Project Science Group

Mars Surveyor Program: '98 Lander and Orbiter Missions Science Instruments

The National Aeronautics and Space Administration (NASA) announces an opportunity to propose a small camera to be carried by the Mars Surveyor Program (MSP) 1998 orbiter. The three-axis stabilized orbiter will use aerobraking to achieve a polar, Sun-synchronous orbit around Mars. Instruments will be nadir-pointed throughout the near-circular mapping orbits, which are planned to continue for at least one martian year.

NASA also announces an opportunity to propose an integrated suite of instruments, or an instrument to be combined with an integrated suite of instruments, or an individual instrument to be included with other individual instruments for the MSP '98 lander. The solar-powered lander will use an active descent propulsion system, similar to Viking, to land on the surface of Mars. Science instruments may be mounted on an exposed upper deck, with thermally sensitive electronics protected inside the lander thermal enclosure. Access to the surface for sample acquisition or deployment of instruments must be proposed as part of the payload. The mission lifetime will depend on the latitude selected for the landing site.

This AO is open to all categories of organizations, both foreign and domestic: industry, educational institutions, other nonprofit organizations, NASA centers, and other Government agencies. Proposals from non-U.S. institutions are encouraged, but only on a no exchange of funds basis. International cooperative proposals, with Co-Investigators (Co-I's) from U.S. institutions participating in non-U.S. proposals or with Co-Investigators from non-U.S. institutions on the teams of proposers from U.S. institutions, are also encouraged. These proposals must identify any requirements for NASA financial support for U.S. personnel and/or hardware.

A written Notice of Intent must be submitted by all prospective proposers and should arrive at NASA Headquarters on or before July 10, 1995. This Notice must be typewritten in English and should be addressed to:

Jorge Scientific
Mars Surveyor Program (AO)
AO 95-OSS-03
Suite 700
400 Virginia Avenue, S.W.
Washington, DC 20024
U.S.A.
E-mail: jboyce@sl.ms.ossa.hq.nasa.gov
Fax Number: (202) 358-3097

The Notice of Intent should briefly describe the objectives of the proposed investigation and include a brief description of the proposed instrumentation. Proposers should include their name, address, telephone number, and the names and addresses of all Co-Investigators as well as their sponsoring organizations.

A Proposal Information Package (PIP) provides background information on the Mars Surveyor Program: '98 Lander and Orbiter Missions which will be needed for the preparation of a formal proposal. Volume 1 of the PIP contains the final report of the NASA/Mars Surveyor Program: '98 Lander Science Definition Team; Volume 2 of the PIP contains the Mars Surveyor Program: '98 Lander Mission Technical Description and Instrument Interface Definition; and Volume 3 of the PIP contains the same type of information for the Mars Surveyor Program: '98 Orbiter. The PIP is available via anonymous file-transfer-protocol (ftp) from Internet host: [mars98www.jpl.nasa.gov](ftp://mars98www.jpl.nasa.gov), and on the World Wide Web (WWW), Universal Record Locator <http://mars98www.jpl.nasa.gov/mars98/ao.html>. Paper copies of the PIP are available from:

Dr. Candice J. Hansen
Mail Stop 306-431
Jet Propulsion Laboratory
4800 Oak Grove Drive
Pasadena, CA 91109-8099
USA
(818) 354-7675
E-mail: cj@frostrus.jpl.nasa.gov

Proposals must be received by August 8, 1995, in order to be considered for this opportunity. Further details are available as Appendices to this Announcement, which are also available via the above Internet source. Paper copies of the Appendices are available from the NASA Headquarters address given below.

Identifier:	AO No. 95-OSS-03
Submit Notice of Intent By:	July 10, 1995
Submit Proposal By:	August 8, 1995
Submit Original and 20 Copies of Proposal To:	Same address as the Notice of Intent (above)
Selecting Official:	Associate Administrator for Space Science
Obtain Appendices and Proposal Information Package Electronically From:	ftp mars98www.jpl.nasa.gov [anonymous ftp] URL = http://mars98www.jpl.nasa.gov/mars98/ao.html [World Wide Web]

Obtain Additional Information From:

Mr. Joseph M. Boyce
Mars Surveyor Program AO
Code SL
NASA Headquarters
Washington, DC 20546-0001
U.S.A.
E-mail: jboyce@sl.ms.ossa.hq.nasa.gov
Telephone: (202) 358-0292
Fax Number: (202) 358-3097

The MSP: '98 Lander and Orbiter Missions represent significant steps forward in the systematic study of Mars and will advance our understanding of its climate, resources, and possible extinct or extant life. The objectives of these missions are to provide a new level of understanding of the role of volatiles, especially water, and the evidence for both long-term and episodic climate changes. I invite you to participate in the important and exciting Mars Surveyor Program: '98 missions.



Wesley T. Huntress, Jr.
Associate Administrator for
Space Science

List of Appendices and Attachments

The Proposal Information Package and the appendices are available electronically via Internet host mars98www.jpl.nasa.gov using anonymous file-transfer-protocol (ftp) and on the World Wide Web, URL = <http://mars98www.jpl.nasa.gov/mars98/ao.html>.

Appendix A: Description of the Opportunity

Appendix B: General Instructions and Provisions

Appendix C: Guidelines for Proposal Preparation and Submission

Appendix D: Proposal Evaluation Criteria, Selection, and Implementation

Appendix E: Format and Certification Forms

Individuals without ftp or WWW access may obtain a paper copy of the AO and Appendices from Mr. Joseph M. Boyce at the NASA Headquarters address given on the previous page and the Proposal Information Package from Dr. Candice J. Hansen at the JPL address also given on a previous page.

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NASA Research Announcement (NRA)/Announcement of Opportunity (AO) Mailing List Update

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This is the update form for the NASA Office of Space Sciences (OSS) NRA/AO mailing list. Please fill out CONTACT INFORMATION completely. Check only those that apply in Institution Type and Discipline. Fold the form, secure with tape, and mail it back to the address on the reverse side. Proper postage must be applied.

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2. Solar System Exploration

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☐ B. Planetary Materials and Geochemistry
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☐ E. Origins of Solar Systems
☐ F. Exobiology

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☐ D. Ion-Thermo-Mesospheric Physics

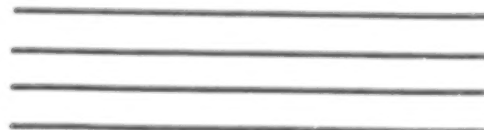
4. Information Systems/Computer Science

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☐ C. Science Data Storage and Management
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MAIL CODE SPI
WASHINGTON, DC 20546-0001



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